



# The Montana Analysis and Reporting System (MARS) and CRT Released Items

## 2010 Assessment Conference



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# Agenda

- Introduction/Background
- CRT Data Analysis
- Released Items
- Accessing MARS
- The Home page
- Account Management
- Interactive
- Reporting
- System Accounts – what can be accessed
- Supplementary Material/Contact Info
- Q & A / Feedback



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# Introduction/Background

- Web-based system for analysis of student results and for generating reports.
- The Montana Analysis and Reporting System (MARS) replaces the legacy iAnalyze system.
- Data can be exported as .XLS, .CSV, or PDF.
- Teachers can be assigned to student rosters so that they can access data for their students (only).
- Data in tables can be manipulated within the browser window without page reload.
- Secure website (SSL).



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## Introduction/Background

- MontCAS CRT assessment window is March 1 – March 24, 2010.
- The Montana Analysis and Reporting System (MARS) was released the first week of June 2008.
- Passwords were mailed to System Test Coordinators May 13, 2008.
- Reading and Math results are available for Grades 3-8 and 10. Science results are available for Grades 4, 8, and 10.



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# Data Analysis

The CRT Gives You Data For:

- Individual Students
- Class or Grade Level
- Subgroups
- School
- District
- State



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# Data Analysis

- Look for trends, patterns, or clusters in the data.
- Analyze data from multiple choice & constructed response separately.
- Base decisions on more than one data point.
- Look at data for insight into:
  - Curriculum
  - Instruction
  - Student Achievement
- Share the data appropriately
  - Teachers
  - Parents
  - Students



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# Data Analysis

- Analyze

- Test Questions
- Questions & answers related to each Montana standard
- Correct answers vs. incorrect answers
- Percentage of correct responses for each standard for multiple choice and constructed response
- Subgroup statistics
- Class or district performance vs. the state results
- The process used by students to arrive at an incorrect response
- Proficient student responses vs. non-proficient student responses



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# Released Items

## Now it's your turn!

Please take a few minutes and answer this constructed response question from 7th grade math. Remember to show your work!

**You may use a calculator during this session.**

**Write your answer in the space provided for it in your Student Response Booklet. Show all of your work.**

73. Luis fills a box with books that each have the same weight. The total weight,  $w$ , in pounds, of the box filled with  $b$  books is shown by the equation below.

$$w = 6b + 2$$

- What is the total weight, in pounds, of a box filled with 4 of the same books? Show or explain how you found your answer.
- On the grid in your Student Response Booklet, graph the equation for boxes filled with 2, 4, 6, 8, and 10 of these books. Be sure to label each axis.
- The maximum weight of a box that Luis can carry is 50 pounds. What is the greatest number of these books that Luis can put into a box and still be able to carry it? Show or explain how you found your answer.



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## Released Items

The question you just answered is from the 2008 CRT 7<sup>th</sup> grade math test. You can view released items for each grade and subject on the OPI web site at:

[http://www.opi.mt.gov/Curriculum/MontCAS/index.html#gpm1\\_7](http://www.opi.mt.gov/Curriculum/MontCAS/index.html#gpm1_7)

Click on Released Item

Sample items from each grade level and subject are available at this site.



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# Released Items

- Common items are released annually
  - 50% of the items were released for the past 3 years. 100% of the items were released in previous years.
  - Items can be found on the OPI Assessment web page.
  - [www.opi.mt.gov](http://www.opi.mt.gov)
    - Story Problems, math vocabulary, answer keys, scoring rubrics, and examples of student work at each score point are provided



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# Released Items

Now let's take a look at the model answers for the question you just completed. Score your answer as we go through the scoring rubric and point system.

Please go to:

<http://www.opi.mt.gov/PDF/Assessment/CRT/RI/08/08Gr7MathCR.pdf>

- Find the question you answered and go through the scoring rubric and model answers.
- How did you do?



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## Released Items

On the released item table of contents – please look at: CRT Math Vocabulary Lists for grades 3-8 & 10. The math vocabulary used on the test is listed in this file – you may want to make sure that these terms are included in the district math classes.



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# Accessing MARS

- Access the Analysis and Reporting System via the Measured Progress iServices website:  
<http://iservices.measuredprogress.org>
- Select 'Montana' from the state/contract dropdown menu and click on Enter.



Measured Progress

Online Client Services

Welcome to Online Client Services!

Select your state/contract and click "Enter" to begin:

Alternate Assessment Collaborative

Montana

Montana Alternate Assessment

Montana Pilot Study

Mountain West Assessment Consortium

Nevada

New England Common Assessment Program-NE

New Hampshire - NHEIAP General

New Hampshire - Alternate Assessment

New Mexico Alternate Assessment

New York Alternate Assessment

Progress Toward Standards

Enter



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# Accessing MARS

- Click on MARS to launch the login screen.

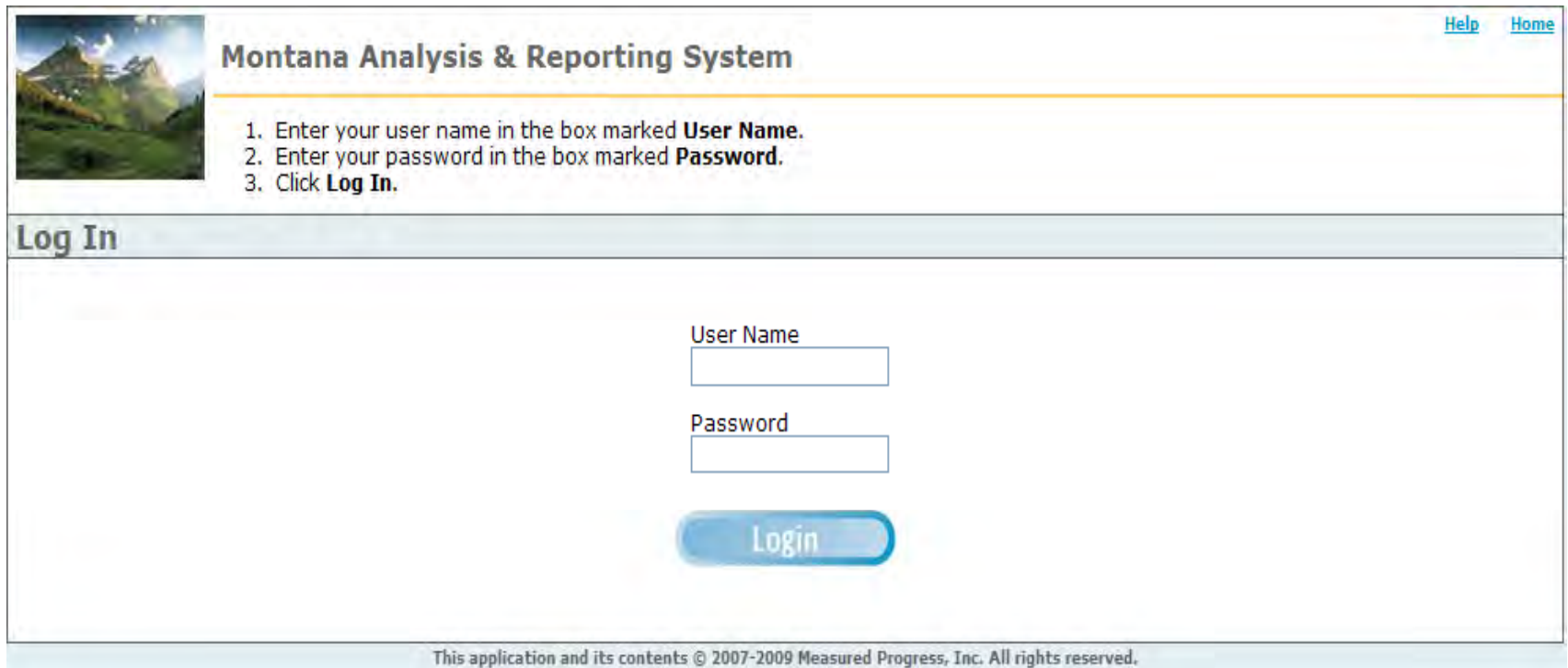


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# Accessing MARS

- Enter the appropriate User Name and Password (system or school) then click on “Log In”.



The screenshot shows the login interface for the Montana Analysis & Reporting System (MARS). At the top left is a small image of a mountain landscape. To its right is the title "Montana Analysis & Reporting System" and links for "Help" and "Home". Below the title is a list of three instructions: 1. Enter your user name in the box marked **User Name**. 2. Enter your password in the box marked **Password**. 3. Click **Log In**. A light blue bar with the text "Log In" is positioned below the instructions. Under this bar are two input fields: "User Name" and "Password". Below the "Password" field is a blue "Login" button. At the bottom of the page, a copyright notice reads: "This application and its contents © 2007-2009 Measured Progress, Inc. All rights reserved."

Montana Analysis & Reporting System

1. Enter your user name in the box marked **User Name**.  
2. Enter your password in the box marked **Password**.  
3. Click **Log In**.

Log In

User Name

Password

Login

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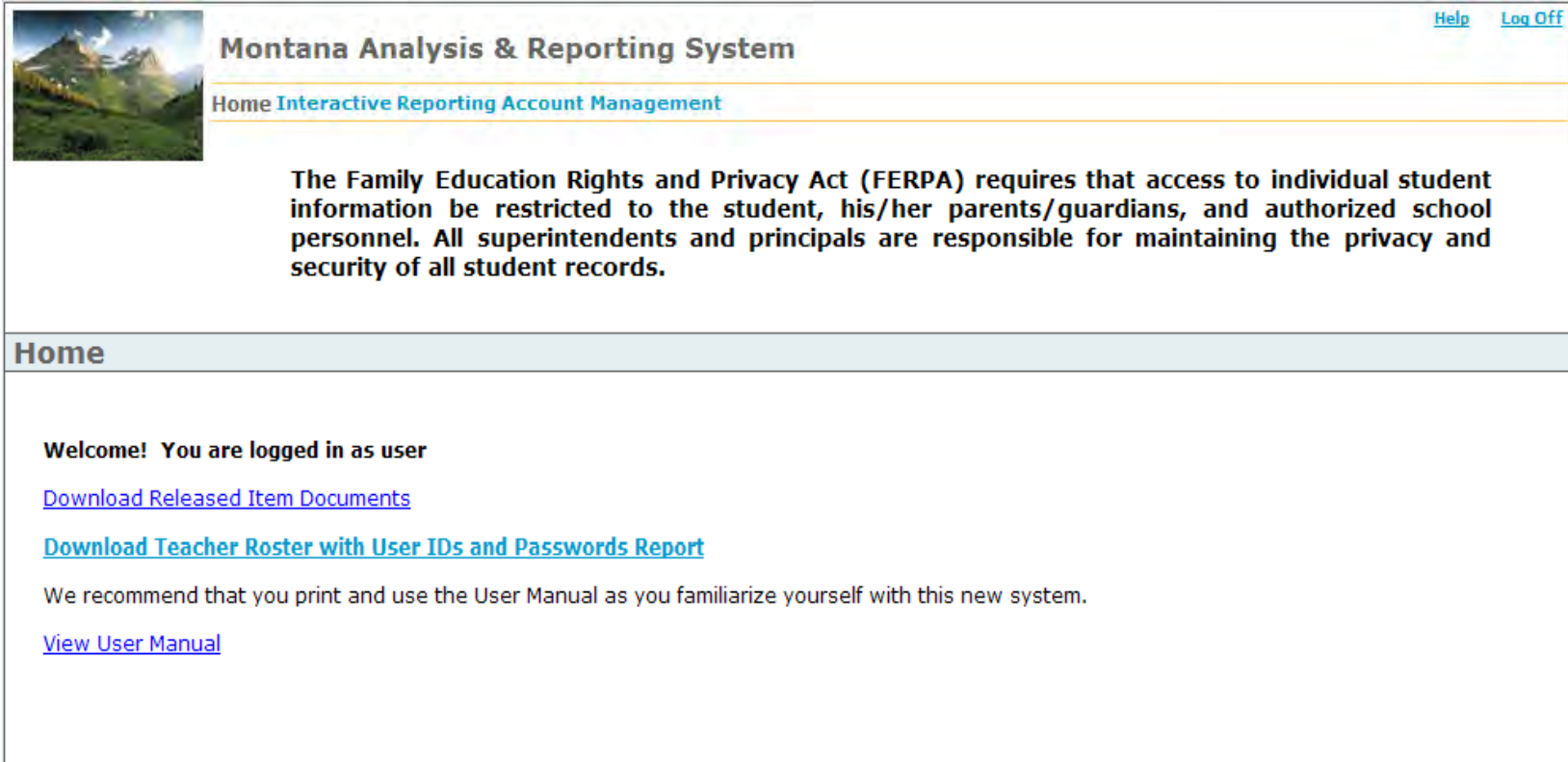
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# MARS Home page

- Released Items Documents
- Teacher Roster
- User Manual



The screenshot shows the MARS Home page. At the top left is a small image of a mountain landscape. To its right is the title "Montana Analysis & Reporting System" and links for "Help" and "Log Off". Below the title is a navigation bar with "Home", "Interactive Reporting", and "Account Management". A large text block in the center states: "The Family Education Rights and Privacy Act (FERPA) requires that access to individual student information be restricted to the student, his/her parents/guardians, and authorized school personnel. All superintendents and principals are responsible for maintaining the privacy and security of all student records." Below this is a "Home" section header. Under "Home", it says "Welcome! You are logged in as user". There are three links: "Download Released Item Documents", "Download Teacher Roster with User IDs and Passwords Report", and "View User Manual". A recommendation text says: "We recommend that you print and use the User Manual as you familiarize yourself with this new system."

Montana Analysis & Reporting System

Home [Interactive Reporting](#) [Account Management](#)

The Family Education Rights and Privacy Act (FERPA) requires that access to individual student information be restricted to the student, his/her parents/guardians, and authorized school personnel. All superintendents and principals are responsible for maintaining the privacy and security of all student records.

**Home**

Welcome! You are logged in as user

[Download Released Item Documents](#)

[Download Teacher Roster with User IDs and Passwords Report](#)

We recommend that you print and use the User Manual as you familiarize yourself with this new system.

[View User Manual](#)



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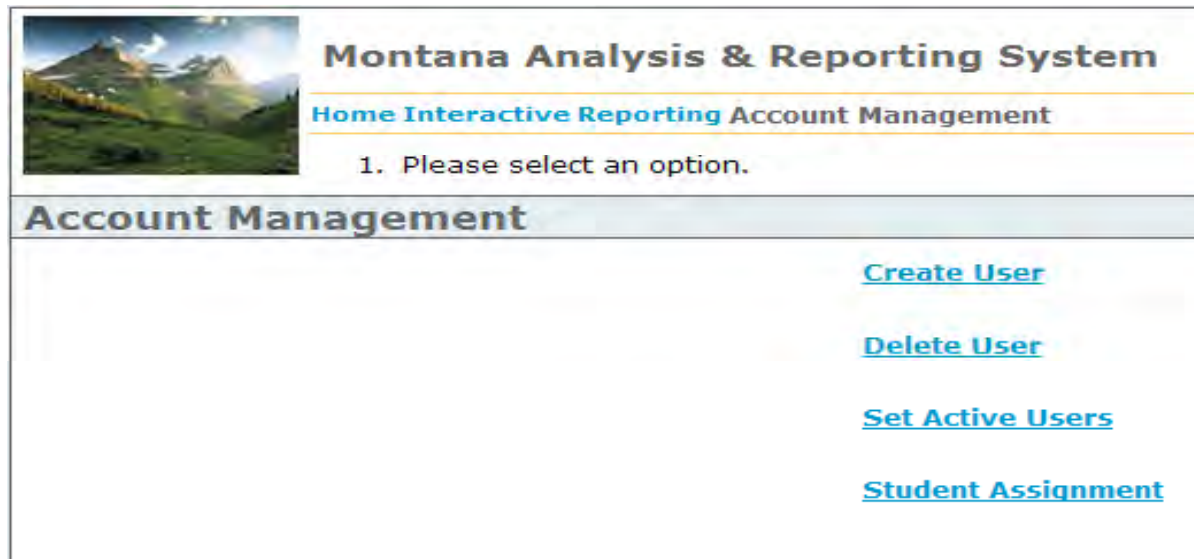
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# Account Management

- At the school-level, there are only two account types:
  - o Principal Account
  - o Classroom Account (Teachers)



The screenshot shows the 'Montana Analysis & Reporting System' interface. At the top left is a landscape image of mountains. To its right, the title 'Montana Analysis & Reporting System' is displayed in bold. Below the title, a navigation bar contains the links 'Home', 'Interactive Reporting', and 'Account Management', with 'Account Management' being the active link. Below the navigation bar, a message reads '1. Please select an option.' followed by a section titled 'Account Management'. Under this section, four blue underlined links are listed: 'Create User', 'Delete User', 'Set Active Users', and 'Student Assignment'.



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# Account Management

- Classroom accounts will be front-loaded by Measured Progress if “sort by” field in AIM is filled out.
- Principals will have access to a report within MARS which will contain all Classroom Account login information (Teacher Roster on Home page).
- Principals will be required to assign new Classroom Accounts to their corresponding student roster groups (Student Assignment).

Hide Basic Filtering Options

---

**Basic Filtering Options**

Year: 2007-2008	System : Public Schools	Grade: Grade 03
Administration: MontCAS CRT	School: School	Subject:

---

**Student Assignment**

User: Karen Submit

<input type="checkbox"/>	Lname	Fname
<input type="checkbox"/>	Adams	Edna
<input type="checkbox"/>	Adams	Edna
<input type="checkbox"/>	Adams	Edna



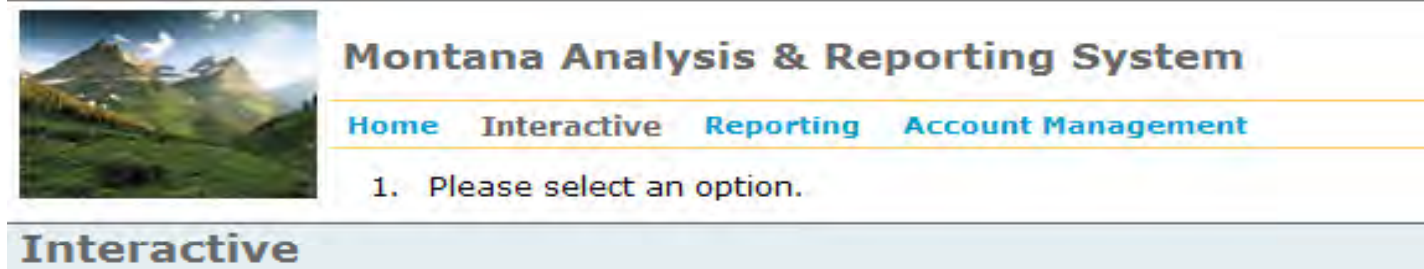
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# The Interactive Menu

- Student –level data
- Pie Chart
- Released Items
- History



**Montana Analysis & Reporting System**

[Home](#) [Interactive](#) [Reporting](#) [Account Management](#)

1. Please select an option.

**Interactive**

[Roster](#)

[Performance Level Summary](#)

[Item Analysis](#)

[Longitudinal Data](#)



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# The Interactive Menu

- Roster
  - o Choose values for: Grade and Subject (other filters automatically filled)
  - o Data will automatically display
  - o Advanced Filtering Options can be selected to further refine data.
    - Use “Click to Show Options” or “Click to Hide Options” to expand or contract the menu.
    - Select “Match All” or “Match Any” if desired.

Hide Basic Filtering Options : : Hide Advanced Filtering Options

---

### Basic Filtering Options

Year: 2008-2009	System : Public Schools	Grade: Grade 03
Administration: MontCAS CRT	School: School	Subject: Mathematics

---

### Advanced Filtering Options

Gender: <input type="text"/>	Ethnicity: <input type="text"/>	<input type="checkbox"/> Identified Disability	<input type="checkbox"/> Economically Disadvantaged
		<input type="checkbox"/> Current LEP	<input type="checkbox"/> Migrant
			<input type="checkbox"/> Plan 504

---

☒ Match All   ☐ Match Any     

---

### Roster



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# The Interactive Menu

- Roster

- o Items within the Roster Report can be sorted within the table without having to refresh the window.
- o Sort by: Last Name, First Name, Student ID, Scaled Score, or Proficiency Level.
- o Download with Custom Title

 Export in PDF Format
  Export in Excel Format
  Export in CSV Format

(Enter a custom report title up to 40 characters for PDF output.)

[View File Layout](#)

Select a Standard:

Filter by Teacher:

**Total number of students: 76**

		<a href="#">View Item</a>	<a href="#">2</a>	<a href="#">3</a>	<a href="#">8</a>	<a href="#">9</a>	<a href="#">10</a>	<a href="#">11</a>	<a href="#">14</a>	<a href="#">15</a>	<a href="#">22</a>	<a href="#">24</a>	<a href="#">31</a>	<a href="#">36</a>	<a href="#">37</a>	<a href="#">39</a>	<a href="#">40</a>	<a href="#">42</a>	<a href="#">43</a>	<a href="#">45</a>	<a href="#">48</a>	<a href="#">51</a>	<a href="#">52</a>	<a href="#">53</a>	<a href="#">55</a>	<a href="#">61</a>	<a href="#">64</a>	<a href="#">67</a>	<a href="#">68</a>	<a href="#">69</a>	<a href="#">71</a>	<a href="#">72</a>		
		ReleasedItem	2	3	8	9	10	11	14	15	22	24	31	36	37	39	40	42	43	45	48	51	52	53	55	61	64	67	68	69	71	72		
		Standard	2	6	7	2	2	7	4	7	2	2	4	6	3	2	5	4	2	3	2	2	4	2	7	6	3	4	6	3	2	5		
		Key	D	B	C	B	C	D	D	A	C		B	C	A	C	A	D	C	B		C	D	A	B	B	A	B	B	C	A			
		PtsPossible	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4		
<a href="#">Lname</a>	<a href="#">Fname</a>	<a href="#">StudentId</a>																														<a href="#">SS</a>	<a href="#">PL</a>	
BOUSCH, JACOB	BOUSCH, JACOB	BOUSCH, JACOB	C	+	+	+	D	+	+	+	+	1	+	+	+	+	+	D	+	1	+	C	B	A	+	+	+	D	A	+	2	267	P	
BOUSCH, JACOB	BOUSCH, JACOB	BOUSCH, JACOB	+	+	D	D	A	C	+	D	+	1	+	+	D	A	C	+	B	+	1	+	+	+	+	+	C	+	D	+	3	258	P	
BOUSCH, JACOB	BOUSCH, JACOB	BOUSCH, JACOB	+	+	A	D	B	+	+	B	+	0	A	+	+	+	+	B	+	1	+	+	C	A	D	+	+	D	+	B	1	246	NP	



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A vertical bar chart with six color-coded segments: purple, green, dark purple, orange, blue, and yellow. Each segment is divided into three sub-segments, creating a total of 18 sub-segments.

- Roster

- o Released items can be viewed.
- o Click the magnifying glass.

[illegible]

- o Select a Standard

Select a Standard:

- 0 - All Standards
- 2 - Numbers and Operations
- 3 - Algebra
- 4 - Geometry
- 5 - Measurement
- 6 - Data Analysis, Statistics, and Probability
- 7 - Patterns, Relations, and Functions

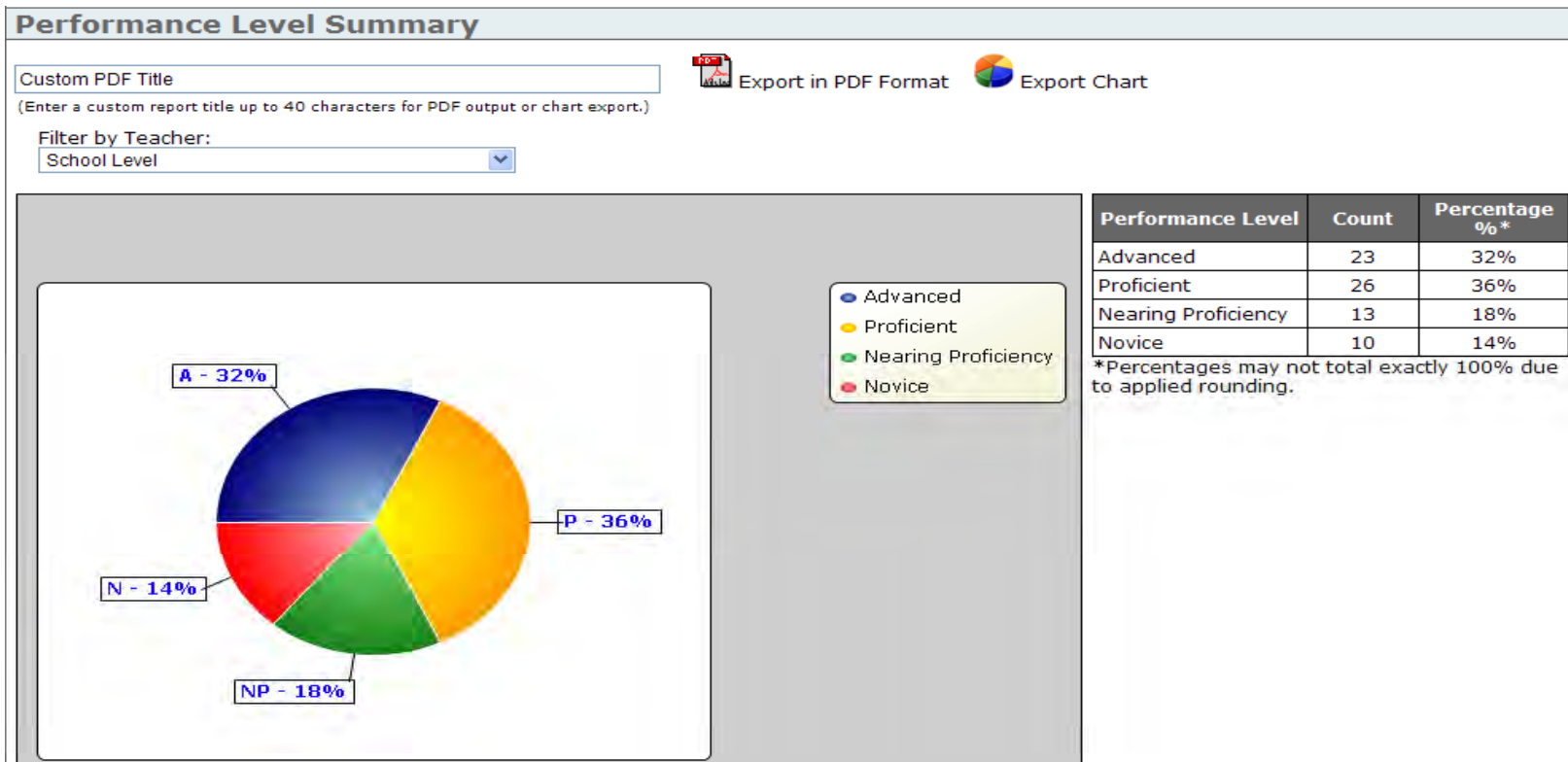
- o Filter by Teacher

**Filter by Teacher:**

School Level	▼
School Level	
Karen	
Mrs. ...	
Mr. ...	
Ms. ...	

# The Interactive Menu

- Performance Level Summary
  - o Enter values in Basic Filtering Options. Data will automatically refresh and display as values are changed.
  - o Advanced Filtering Options can be selected to further refine data.
  - o Export in PDF Format or as a Chart (JPG picture).



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# The Interactive Menu

- Item Analysis

- o Enter values in Basic Filtering Options. Data will automatically refresh and display as values are changed.
- o Advanced Filtering Options can be selected to further refine data.
- o Multiple Choice and Constructed Response results are displayed separately. For Multiple Choice, Count and Percent values can be selected.

## Basic Filtering Options

Year: 2007-2008	System : Public Schools	Grade: Grade 03
Administration: MontCAS CRT	School: School	Subject: Mathematics

## Item Analysis

Custom PDF Title

(Enter a custom report title up to 40 characters for PDF output.)



Export in PDF Format

Filter by Teacher:

School Level

### Multiple Choice

☒ Count ☐ Percent

Released Item	Standard	Correct (#)	A (#)	B (#)	C (#)	D (#)	IR	Correct Response
1	5	68	2	1	68	1	0	C
2	2	56	5	56	8	3	0	B
3	6	68	0	68	2	2	0	B
4	5	41	14	13	4	41	0	D
5	2	50	50	12	4	6	0	A
8	7	52	52	4	4	10	2	A

### Constructed-Response

Released Item	Standard	Point Value	Average Score
23	3	1	0.7
24	2	1	0.7
25	4	4	2.9
48	2	1	0.9
72	2	4	2.1



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# The Interactive Menu

- Item Analysis

- Items within the Item Analysis can be sorted within the table without having to refresh the window.
- Sort by: Released Item, Standard, Correct (#), A(#), B(#), C(#), D(#), IR, or Correct Response. It will sort greatest to smallest.

## Item Analysis

Custom PDF Title

(Enter a custom report title up to 40 characters for PDF output.)

Filter by Teacher:

School Level



Export in PDF Format

### Multiple Choice

☒ Count ☐ Percent

Released Item	Standard	Correct (#)	A (#)	B (#)	C (#)	D (#)	IR	Correct Response
<a href="#">2</a>	2	56	5	56	8	3	0	B
5	2	50	50	12	4	6	0	A
<a href="#">13</a>	2	49	10	5	49	8	0	C
19	2	53	11	53	6	2	0	B
<a href="#">20</a>	2	42	7	18	42	5	0	C
<a href="#">21</a>	2	55	3	55	4	8	2	B
29	2	48	17	3	48	3	1	C
31	2	51	2	51	7	12	0	B

### Constructed-Response

Released Item	Standard	Point Value	Average Score
<a href="#">23</a>	3	1	0.7
24	2	1	0.7
<a href="#">25</a>	4	4	2.9
<a href="#">48</a>	2	1	0.9
72	2	4	2.1



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# The Interactive Menu

- Longitudinal Data
  - o Enter values in Basic Filtering Options.
  - o Under Longitudinal Data, select a student.
  - o All subject results display.
  - o Up to 3 years worth of data.

### Basic Filtering Options

Year:  
2008-2009

System :  
Public Schools

Grade:  
Grade 05

Administration:  
MontCAS CRT

School:  
School

Subject:

### Longitudinal Data

0607

0708

0809

Year	Grade	School Name	RD SS	RD PL	MA SS	MA PL	SC SS	SC PL
0607	03	School	236	NP	220	N	N/A	N/A
0708	04	School	252	P	207	N	230	NP
0809	05	School	266	P	241	NP	N/A	N/A



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# The Reporting Menu

- Reporting
  - Select Basic Filtering Options: Year, Administration, and Grade

Basic Filtering Options		
Year: 2008-2009	System : Public Schools	Grade: Grade 03
Administration: MontCAS CRT	School: School	Subject: Please Select A Subject

Reports
<input type="checkbox"/> School Summary - Mathematics <input type="checkbox"/> School Summary - Reading
<a href="#">Download</a>



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# The Reporting Menu

- Once Basic Filtering Options have been selected:
  - o Select Reports you wish to download.
  - o Click on Download.
  - o Save report(s) to computer. As with other reports, they will be compressed.

☒ School Summary - Mathematics

☒ School Summary - Reading

☒ School Summary - Science

Download

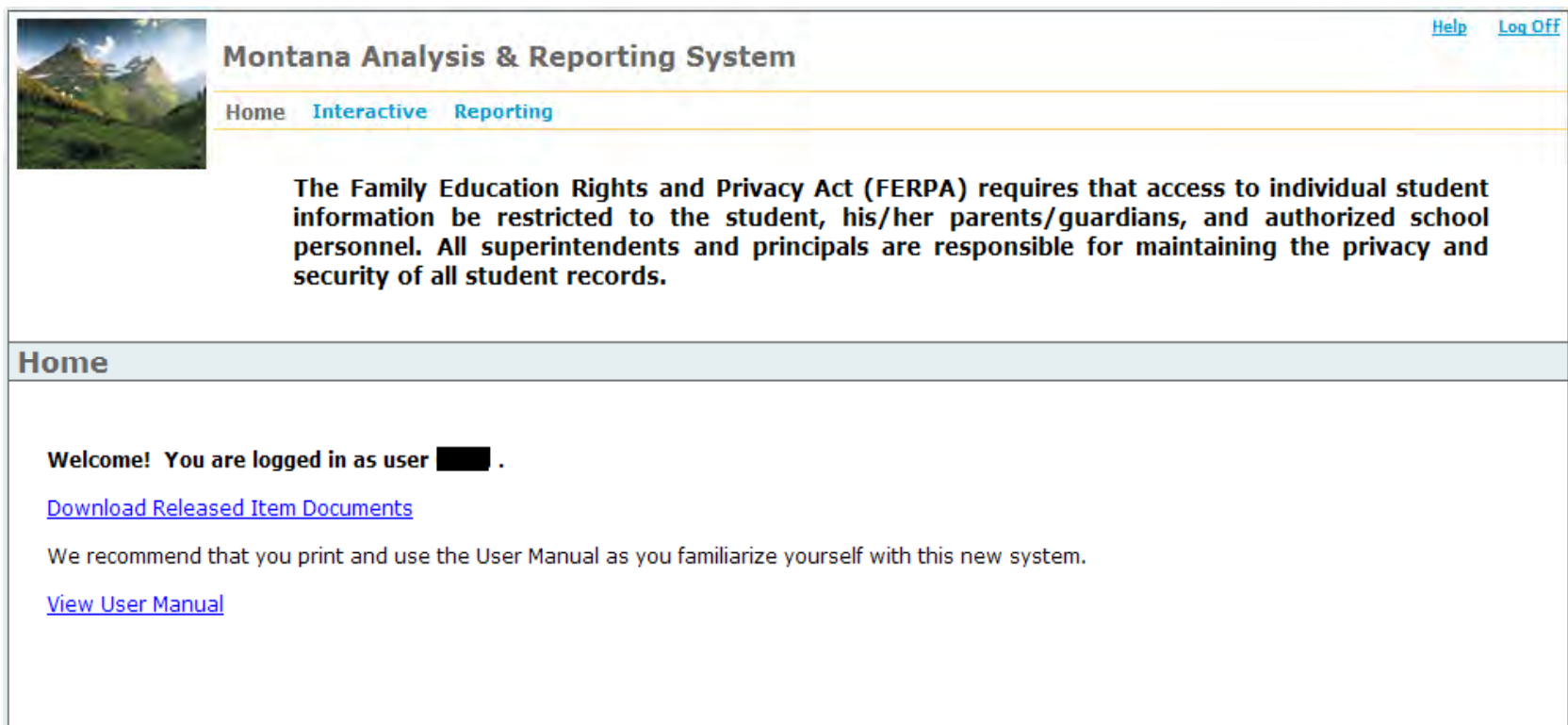


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# System Accounts

- Access to data for all grades within a given system.
- There is only one System Account.



The screenshot shows the home page of the Montana Analysis & Reporting System. At the top left is a small image of a mountain landscape. To its right is the title "Montana Analysis & Reporting System" and links for "Help" and "Log Off". Below the title is a navigation bar with "Home", "Interactive", and "Reporting" links. A prominent text block states: "The Family Education Rights and Privacy Act (FERPA) requires that access to individual student information be restricted to the student, his/her parents/guardians, and authorized school personnel. All superintendents and principals are responsible for maintaining the privacy and security of all student records." Below this is a "Home" section header. The main content area welcomes the user, stating "Welcome! You are logged in as user [redacted]". It includes links for "Download Released Item Documents" and "View User Manual", and a recommendation to print and use the User Manual.



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# System Accounts

- Interactive
  - Roster
  - Performance Level Summary
  - Item Analysis
  - Longitudinal Data



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# System Accounts

- Reporting
  - o From the main menu at the top of the screen, select Reporting

## Montana Analysis & Reporting System

[Home](#) [Interactive](#) [Reporting](#) [Account Management](#)

1. Use the drop-down menus in the **Basic Filtering Options**
2. Use the checkboxes to select the reports that you want

- o Select Basic Filtering Options.

Hide Basic Filtering Options

### Basic Filtering Options

Year:

Please Select A Year Span

System :

Grade:

Administration:

No Administrations Available

School:

Subject:

### Reports

Please complete the basic filtering options to display reports.



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# System Accounts

- Once Basic Filtering Options have been selected:
  - o Select the reports you would like.
  - o Select Download.
  - o Save report(s) to computer. As with other reports, it will be compressed.

Basic Filtering Options		
Year: 2007-2008	System : Public Schools	Grade: Grade 04
Administration: MontCAS CRT	School: System-Level	Subject: Please Select A Subject

Reports
<input type="checkbox"/> School File Layout - Math & Reading
<input type="checkbox"/> School File Layout - Science
<input type="checkbox"/> System File Layout - Math & Reading
<input type="checkbox"/> System File Layout - Science
<input type="checkbox"/> Student-level Data - Math & Reading
<input type="checkbox"/> Student-level Data - Science
<input type="checkbox"/> System Summary - Mathematics
<input type="checkbox"/> System Summary - Reading
<input type="checkbox"/> System Summary - Science
<input type="checkbox"/> School Summary - Mathematics
<input type="checkbox"/> School Summary - Reading
<input type="checkbox"/> School Summary - Science
<input type="checkbox"/> School Student-level Data - Math & Reading
<input type="checkbox"/> School Student-level Data - Science

[Download](#)



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## Extremely Important!

- The information on MARS is confidential and must be protected from viewing by unauthorized individuals.
  - Never leave your browser open to MARS when you are not directly working with the program.
  - Always completely close your browser and clear the history when you are done on your computer or especially on any other computer.
  - Also, please remember if you export data or copy & paste data from MARS treat it with confidentiality.



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# CRT Performance Level Descriptors and Scaled Score Ranges (Samples)

## Grade 3

Performance Level	Reading	Mathematics
Advanced	287–300	290–300
Proficient	250–286	250–289
Nearing Proficiency	225–249	225–249
Novice	200–224	200–224

## Grade 5

Performance Level	Reading	Mathematics
Advanced	287–300	289–300
Proficient	250–286	250–288
Nearing Proficiency	225–249	225–249
Novice	200–224	200–224

## Grade 7

Performance Level	Reading	Mathematics
Advanced	288–300	289–300
Proficient	250–287	250–288
Nearing Proficiency	225–249	225–249
Novice	200–224	200–224

## Grade 10

Performance Level	Reading	Mathematics
Advanced	289–300	281–300
Proficient	250–288	250–280
Nearing Proficiency	225–249	225–249
Novice	200–224	200–224



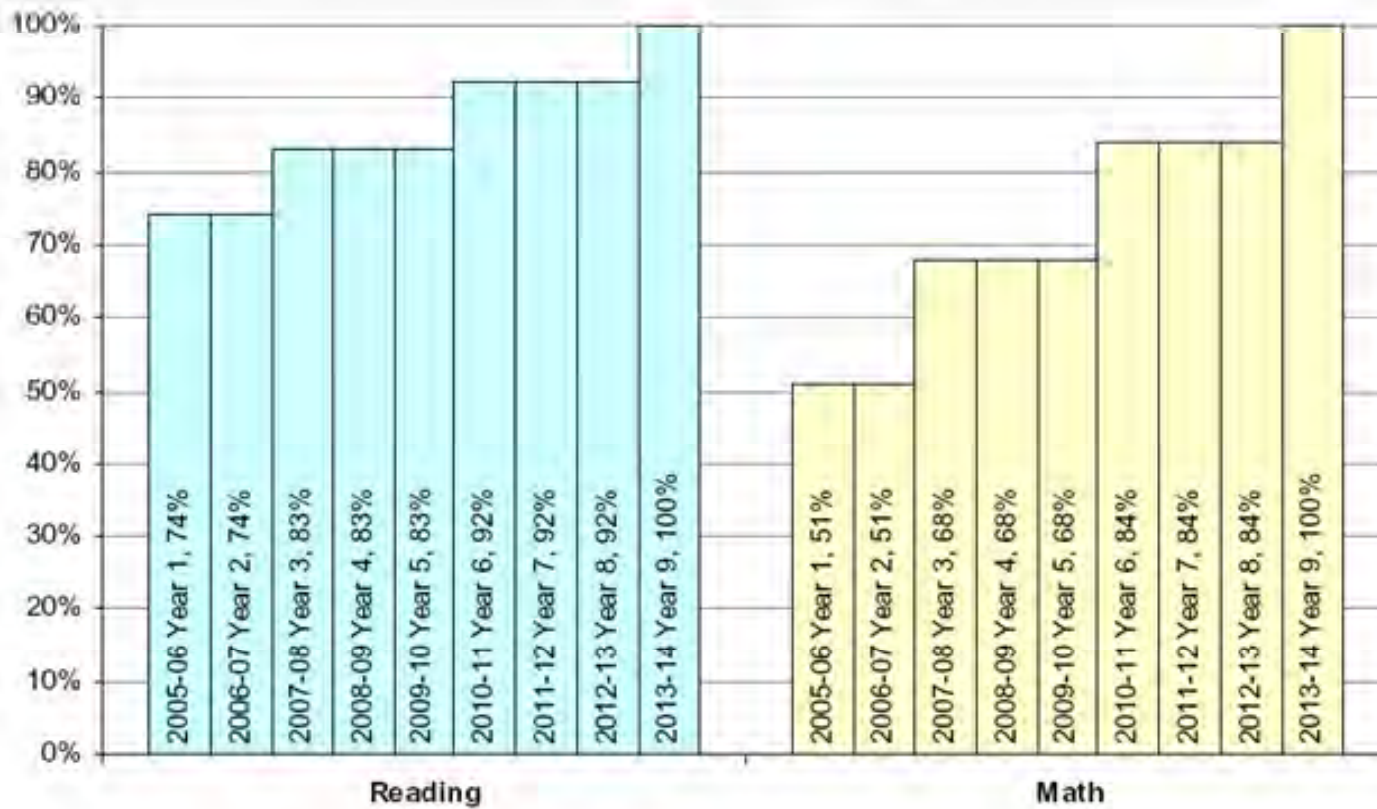
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# Timeline for Improvement

Montana Annual Measurable Objective Trajectory



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## Other Supplementary Material

- Montana Content Standards
- Benchmarks
- Performance Descriptors
- Essential Learning Expectations
- Performance Rubrics

[http://www.opi.mt.gov/Curriculum/Index.html?gpm=1\\_8](http://www.opi.mt.gov/Curriculum/Index.html?gpm=1_8)



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# MARS Help

- 2008 MARS User and Training Guide:  
[http://opi.mt.gov/pdf/Assessment/CRT/08Mars\\_Manual.pdf](http://opi.mt.gov/pdf/Assessment/CRT/08Mars_Manual.pdf)
- Technical Support is available at the following:
  - E-Mail: [MarsHelp@measuredprogress.org](mailto:MarsHelp@measuredprogress.org)
  - Phone: (866) 632-7764



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# Questions and Answers / Feedback



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